

V167 1-4

Latter states until the thread completes, at which time it transitions back in the Core Unsigned queue.

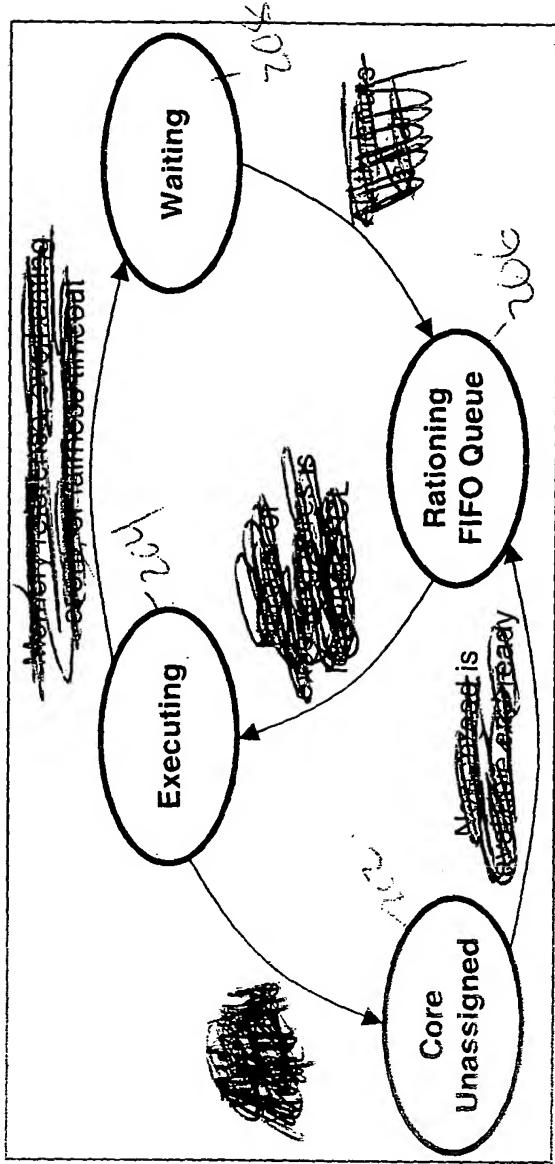


Figure 1. CRSO State Diagram for each core.

the frequency. As mentioned before,  $f$  is inversely proportional to the ECL because as the number of executing cores is reduced, dynamic power dissipation is reduced, and therefore  $f$  can be increased to remain at the steady-state thermal limit. Total performance thus includes the effects of increased  $f$  as the ECL is reduced.

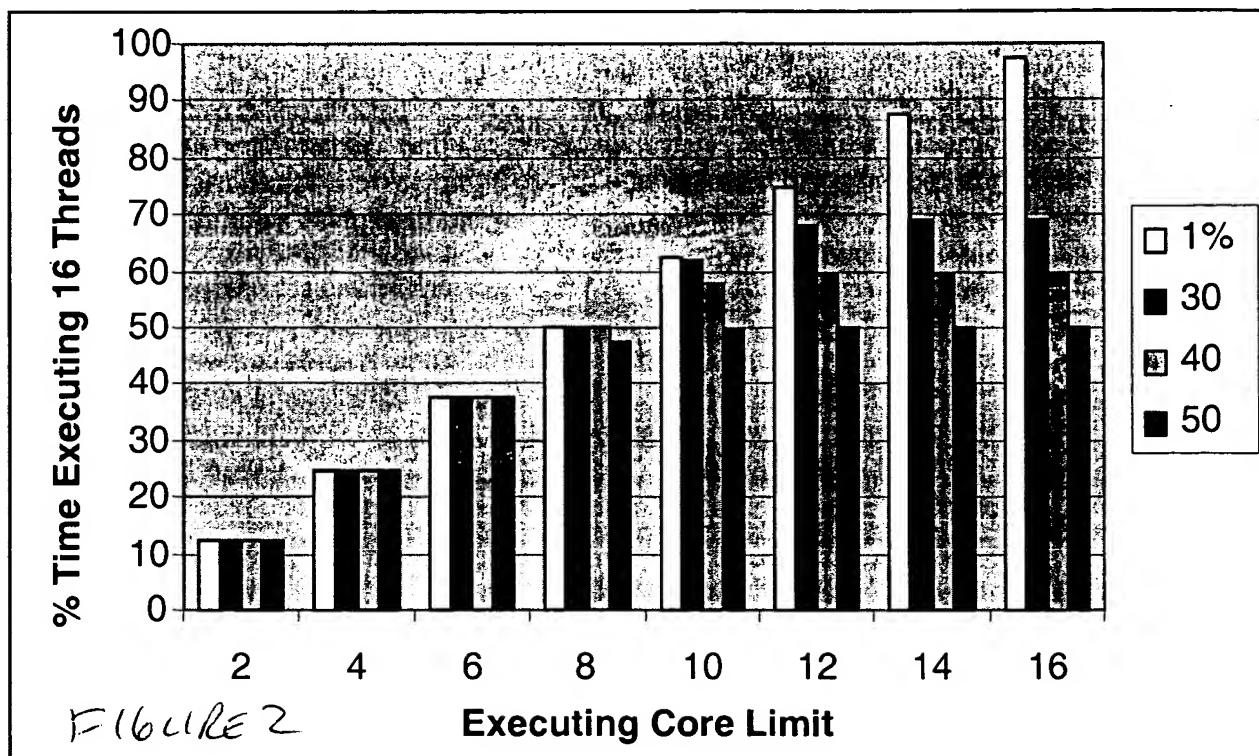


Figure 2. Percentage Time Executing from Monte Carlo simulation of 16 threads with 1%, 30%, 40%, and 50% memory reference duty cycle.

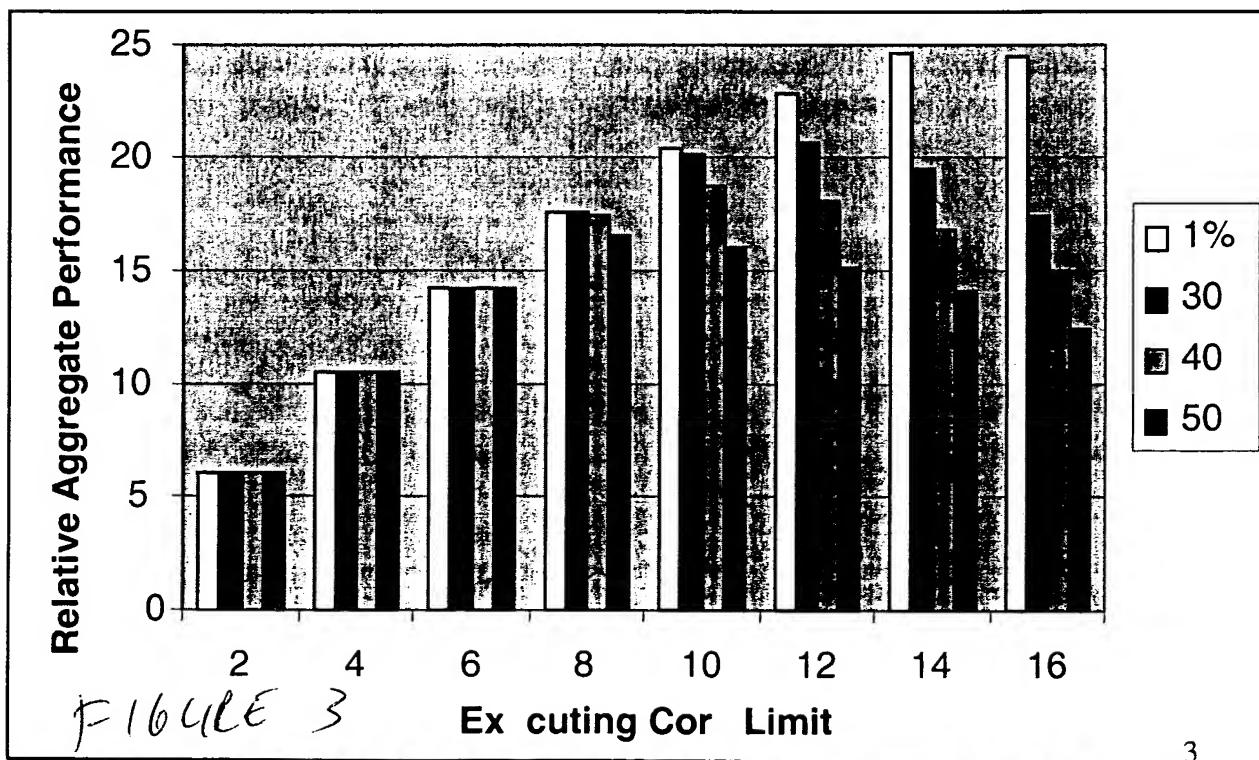
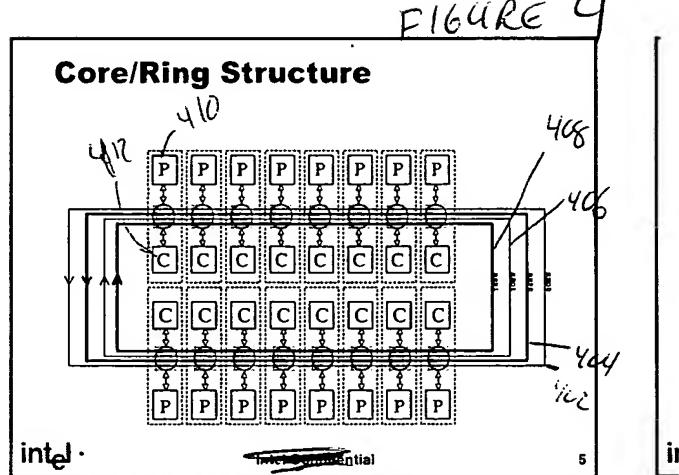


Figure 3. Relative Aggregate Performance from Monte Carlo simulation of 16 threads with 1%, 30%, 40%, and 50% memory reference duty cycle.

FIGURE 4



Module 4

what is EIP?